

MASTER OF EDUCATION IN SPECIAL NEEDS EDUCATION

1.0 INTRODUCTION

The Faculty of Education will offer the Master of Education in Special Education. It is therefore, important to meet this demand for teachers with advanced knowledge in Education by providing relevant programmes. The programme is also designed for persons who want to undertake or upgrade their teacher education and training.

2.0 PROGRAMME OBJECTIVES

The objectives of the programme are as follows;

- a) To prepare persons who can effectively teach in various educational institutions.
- b) To prepare education professionals to undertake leadership positions in the field of education.

3.0 ADMISSION REQUIREMENTS

- 3.1 The common regulations for Master Degrees in both the University and School of Education shall apply.
- 3.2 To be eligible for admission into the Med programme in Guidance and Counseling of at least Second Class Honors (Lower Division) of Jaramogi Oginga Odinga University of Science and Technology or equivalent from a recognized University.

4.0 CREDITS TRANSFER

A candidate may be exempted from some course units and credit(s) transferred from institutions recognized by the Senate, subject to the following conditions:

- a) Must have passed in similar course units at Master's level. Request for exemption should be made in writing to the Director, Board of Postgraduate Studies through the Dean of the respective School and must be accompanied by officially endorsed supporting documents.
- b) Candidates may be allowed to transfer up to one third (1/3) of the total number of course units.

- c) Application for transfer will be processed only after payment of the prescribed fees.

5.0 COURSE STRUCTURE AND DURATION

- a) The Masters' course shall normally take two years covering 4 semesters offered by unit method.
- b) Courses shall be offered in units. A course unit is defined as that part of a semester subject described by coherent syllabus and taught normally over a period of a semester. It is designated as a total of 42 hours of study in a semester. For this purpose, one 1-hour lecture is equivalent 2-hours tutorial or 3-hours practical or any combination as may be approved by the Board of the School.
- c) Part-time students shall be allowed to take not less than 50% of the courses prescribed for the year.
- d) All course units will be taught for a total of 42 contact hours, including examinations except project work which will take 480 hours of practical work and project writing.

6.0 BASIC REQUIREMENTS

All core courses are compulsory; however, students can take additional electives courses up to a maximum of the six units.

7.0 EXAMINATIONS REGULATIONS

University College Examinations rules and regulation shall apply.

8.0 COURSE DISTRIBUTION

FIRST YEAR, FIRST SEMESTER

COURSE CODE	COURSE TITLE	UNITS
EDU 801	Research methods 1	3(C)
ESE 801	Issues and Trends in Special Needs Education	3(C)
ESE 802	Psychology & Sociology of Disabilities	3(C)
ESE 803	Special Needs Assessment	3(C)
ESE 804	Philosophy of Teaching and Learning in Special Needs Education	3(C)
ESE 805	Practices and Management in Inclusive Education	3(C)

At least ONE elective from the list given:

ESE 806	Communication strategies in Special Needs Education	3(E)
EMA 833	Theories and concepts in Education Administration	3(E)
ESE 807	Adaptive Curriculum and Teaching in Special Needs Education	3(E)
ESE 808	Speech and Auditory Training	3(E)
ESE 809	Education of the Gifted and Talented	3(E)
ESE 810	Education and Low Vision	3(E)

FIRST YEAR SECOND SEMESTER

EDU 802	Measurements and Evaluation	3(C)
EDU 803	Research methods II	3(C)
EDU 804	Computer Application in Research	3(C)
ESE 811	Disability and Community Based Rehabilitation	3(C)
ESE 812	Production and Use of Learning Materials in Special	3(C)

ESE 813	Seminars in Special Needs Education	3(C)
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And at least TWO electives from one of the options

ELECTIVES

Option 1	Hearing Impairment	
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ESE 814	Advanced Clinical Audiology	3(E)
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ESE 815	Sign Language Interpretation	3(E)
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ESE 815	Sign Language Linguistics	3(E)
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ESE 817	Bilingualism in Deaf Education	3(E)
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Option II	Mental Handicap	3(E)
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ESE 818	Learning Difficulties	3(E)
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ESE 819	Vocational Rehabilitation and Mental Handicap	3(E)
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ESE 820	Language and Speech Problems related to Mental Handicap	3(E)
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ESE 821	Management of learners with autism	3(E)
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Option III	Visual Impairment	3(E)
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ESE 822	Advanced Orientation & Mobility	3(E)
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ESE 823	Braille and Education	3(E)
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ESE 824	Technology and Visual Impairment	3(E)
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Option IV	Rehabilitation and Counseling	3(E)
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ESE 825	Counseling in Special Needs Education	3(E)
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ESE 826	Vocational Development and Career Counseling In Special Needs	3(E)
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ESE 827	Principles and Practices in Rehabilitation	3(E)
ESE 828	Communication Strategies in Community Based Rehabilitation	3(E)
ESE 829	Medical practice and rehabilitation	3(E)

SECOND YEAR FIRST SEMESTER

EDU 899	Research (Proposal Writing)	6 (C)
ESE 830	Attachment (12 hrs per week for 12 weeks)	3 (C)

SECOND YEAR SECOND SEMESTER

EDU 899	Research (Thesis Writing)	9 (C)
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9.0 COURSE DESCRIPTION

EDU 801 Research Methods 1

(3 units)

Different research designs in educational psychology: descriptive, correlation, causal comparative, experimental, qualitative; computation and interpretation of various statistical indices: mean, median, mode, range, quartiles and percentiles, and standard deviation; computation and interpretation of inferential statistics: correlation and regression coefficients, t-test, F-ratio in ANOVA, Chi-square; drawing and interpreting simple graphical plots.

ESE 801 Issues and Trends in Special Needs Education

(3 units)

Learning methods in special needs education; assessment issues; research and practices in special needs education; early intervention programmes; cost benefit of special needs education; inclusion; cultural issues; parental involvement.

ESE 802 Psychology and Sociology of Disabilities (3 units)

Understanding disability; different perceptions of disability; special needs education and disability; disability in Society; effects of disability on socio-emotional and economic development; theory, research and practice as related to disability. Effects of disability on behavior, effects of disabling conditions on education and rehabilitation. Stigmatization on disability.

ESE 803 Special Needs Assessment (3 units)

Theories on assessment; legal and philosophical issues in special needs assessment; ethical issues; cultural diversity; types of assessments; development of assessment tools; assessment interpretation; use of assessment data.

ESE 804 Philosophy of Teaching and Learning in Special Needs Education

(3 units)

Historical perspective in Special Needs Education; different approaches and strategies of teaching: movement, drama, music, art therapy; use of electronic media.

ESE 805 Practices and Management in Inclusive Education (3 units)

The concept of inclusion; human rights; era of segregation; types of integration; strategies and methods of inclusion; policy framework; support services; curriculum; examinations; classroom and school organization. Economic and financial cost effectiveness inclusion.

ESE 806 Communication Strategies in Special Needs Education (3 units)

Modes of communication and disabilities; communication techniques: Braille, Sign language. Alternative modes of communication; use of Information technology on Special Needs.

EMA 833 Theories and concepts in Educational Administration (3 units)

Theories and concepts that dominate the field of educational administration; nature; types, uses and application of administrative theories; communication and decision making process; line and staff organization; power and authority; organizational structure and theory; rationalism; humanism and behaviourism; leadership; group dynamics motivations; public relations.

ESE 807 Adaptive Curriculum and Teaching in Special Needs Education (3 units)

Curriculum practices and procedures in developing programmes for Special Needs Education; teaching and learning process; Individual and group intervention; Individualised Educational Programme. Utilization of technology in teaching; approaches to evaluation of adapted curriculum: use of test results.

ESE 808 Speech and Auditory Training (3 units)

Anatomy and physiology of vocal mechanism; Speech and Language examinations; Voice disorders; functional dysphonias, ventricular phonation, spastic dysphonia; vocal fold paralysis, resonance disorders, and laryngectomy. Prevention of phonation disorders; Speech and Auditory rehabilitation

ESE 809 Education of the Gifted and Talented (3 units)

Assessment of instructional needs of the Gifted and Talented and their implications; intervention strategies; selections and adaptations of materials; technological adaptations; education and challenges of the gifted and talented.

ESE 810 Education and Low Vision (3 units)

Definition of low vision; causes of low vision; categories of low vision; Low vision assessment; environmental factors affecting learners with low vision; optical devices for training learners with Low vision; Low vision training techniques.

EDU 802 Measurement and Evaluation (3 units)

Measurement theories; principles and techniques of evaluation; educational objectives; types of tests; test construction; test administration; scoring and interpretation; reliability and validity; item analysis; scaling.

EDU 803 Research Methods II**(3 units)**

Formulation of research problem; sourcing of literature; designing appropriate methodology.

EDU 804 Computer Application in Research**(3 units)**

Basic principles of computer operation; basic work processing; one statistical package to compute the following: mean, median, mode, quartiles and percentiles, range standard deviation, correlation and regression, t-statistics, F-ratio in ANOVA, Chi-square; drawing and interpreting graphical plots.

ESE 811 Disability and Community Based Rehabilitation**(3 units)**

Management of community based rehabilitation programmes; role of the community and community based organizations; Community dynamics; principles and practices of community rehabilitation; fundraising strategies for community based rehabilitation programmes.

ESE 812 Production and Use of Learning Material in Special Needs Education**(3 units)**

Techniques of production of teaching and learning materials in Special Needs Education; application and use of the produced teaching and learning materials.

ESE 813 Seminar in Special Needs Education**(3 units)**

Students will be required to participate in seminars on current issues in Special Needs in Education.

ESE 814 Advanced Clinical Audiology**(3 units)**

Fundamentals of psychophysics of audition; anatomy and physiology of the auditory mechanism. Disorders of hearing; pure tone and speech audiometry; differential diagnosis; masking, acoustic impedance; special auditory test and calibration; auditory rehabilitation.

ESE 815 Advanced Sign Language Interpretation**(3 units)**

Sign Language and Deaf community; linguistics of sign language; principles of sign language interpretation; interpretation code of ethics; interpretation and culture. Forms of interpretation: simultaneous and consecutive interpretation; Sign language interpretation in different settings.

ESE 816 Sign Language and Linguistics (3 units)

Linguistic and sociolinguistic features of sign languages; sign language glossing; sign language notation and transcription; sign language phonology and morphology; noun, verb inflection, tense, and verb morphology. Modality in sign language; space, verb types. Syntax and sign order.

ESE 817 Bilingualism in Deaf Education (3 units)

Types of bilingualism: maintenance, transitional; sign bilingualism; characteristics of bilinguals; language component; language skills; bilingualism along continuum; bilingualism and intelligence. Development of bilingualism; bilingual models in deaf education. Application of bilingualism in deaf education.

ESE 818 Learning Difficulties (3 units)

Education and psychology of learning difficulties; theoretical perspectives; specific types of learning difficulties; approaches; curriculum differentiation; development and implementation of Individualized Education Programme.

ESE 819 Vocational Rehabilitation and Mental Handicap (3 units)

Vocational assessment; curriculum modification and adaptation; identification and placement, instructional techniques; integration; transition from school to work: job placement; vocational counseling.

ESE 820 Language and Speech Problems Related to Mental Handicap-(3 units)

Disorders of speech and language associated with cerebral palsy. Classification: downs syndrome; autistic; Anatomy; physiology; pathology; symptomatology.

ESE 821 Management of Learners with Autism (3 units)

Classes of autism; causes and characteristics; assessment and teaching of learners with autism; types of intervention strategies with autism. Management of autistic children in the learning and home environments.

ESE 822 Advanced Orientation and Mobility (3 units)

Deeper concept development of the environment; perceptual training; advanced orientation and mobility skills; management of change in human development in relation to visual impairment; family life; visual rehabilitation.

ESE 823 Advanced Braille and Education (3 units)

Advance knowledge of Braille and Braille production; the use of portable Braille devices; E-Books; special problems in Braille reading; Braille translation software; limitations of Braille code; Braille literature; Research in Braille reading and writing; maintenance and repair of Braille machines.

ESE 824 Technology and Visual Impairment (3 units)

Use of the current technological appliances in the education of the visually impaired persons. Citrix meta-frame and windows; Optical character recognition; screen access technology; tactile graphics; non-Visual Web accessibility; Han-held reading machine; graphical user interface; the audible and tactile devices; the JAWS programme.

ESE 825 Counselling in Special Needs Education (3 units)

Theories and research in counseling in Special Needs; counseling and culture; development and evaluation of counseling; contemporary theories and methods of motivation of the client.

ESE 826 Vocational Development and Career Counselling in Special Needs

(3 units)

Meaning of work in different domains; Development of work skills; theories of career development; use of computers in career counseling; vocational decision making and career counseling in different areas of Special Needs.

ESE 827 Principles and Practices of Rehabilitation

(3 units)

Development and application of counseling skills in the rehabilitation process; role of rehabilitation counselor; challenges and implications of counseling persons with disabilities; effects of disability on the individual family and others.

ESE 828 Communication Strategies in Community Based Rehabilitation

(3 units)

Communication as a tool for intervention; communication strategies in community based rehabilitation programs; use of different communication methods and styles; culture and language amongst different vulnerable groups; use of specialized communication techniques with specific groups: hearing impairment, the visually impaired, the mentally handicapped and those with other.

ESE 829 Medical Practice and Rehabilitation

(3 units)

Body functions; diseases; therapeutic techniques. Medical evaluation and prognosis. Appraisal of physical capabilities for job demands; Relationship between medicine and other professionals in rehabilitation process.

ESE 830 Attachment

(3 units)

Students will be required to do twelve (12 hours) per week for 12 weeks of attachment in the related field.

EDU 899 Research (Proposal Writing)

(3 units)

Identifying a research topic; developing a research proposal.

EDU 899 Research (Thesis Writing)

(3 units)

Field Research; data collection; reorganization; data analysis; explanation; interpretation; write-up; presentation; submission.